

AG04-048C-PC.txt  
SEQUENCE LISTING

<110> Agrinomics LLC  
 <120> GENERATION OF PLANTS WITH ALTERED OIL CONTENT  
 <130> AG04-048C-PC  
 <150> 60/530,799  
 <151> 2003-12-17  
 <160> 4  
 <170> PatentIn version 3.2  
 <210> 1  
 <211> 981  
 <212> DNA  
 <213> Arabidopsis thaliana  
 <400> 1  
 atggattatt caaaaaccga agaaacaccg ataaacgaag aacaaggggtc aacaaattca 60  
 tctgaaagca gaagcaatga agagttattc tctgattgtg atcaacaaca ttcttccata 120  
 gctaacgagt tcggactaac ggagttgcct aaagacgata aagtttacga gcttatctac 180  
 cgtcattgcc aatctaagct aacttctcac ttaagcaatc agtttgagat tgtatcaatt 240  
 ctcaagaacg gatttcaaac accattagga caagctaagc ttaaagcctt tcaaataatac 300  
 gctgagtctg ttgcaaagaa aagcggcagc tgctgtggaa acaaagctgc ggtggctgaa 360  
 gcggcgagag tgaaatacgg ttgttgcggt gtggagaagg aagagttaaa agcgattcta 420  
 atgtatggat ttagcaacaa tgccttatgt ctctcaccag acaatgctcc tcttcaatgt 480  
 atgatagatc cttcatcatc ttgtaacgaa gacgggatta gcttcttgct gttttcaaga 540  
 attattatgg gaaaatcaga ggttgtgtgc tcgacatcac aatcgtatcc gagttctatg 600  
 gagtttgatt caggtgtaga cagtttgaca tctccaaaca agtatattat ttggagcaca 660  
 cacatgaaca ctcatgtttt gcctgagttt gttgtttgca tcaaaactcc atctatcttg 720  
 aaaagaattg ctgatttggt atgtttatit gatatagaaa acccgaaatc tccttggatt 780  
 tcgtttccgg tcttaatcaa ctcgatatca aagtttctaa atcaatcgca aatccgtctc 840  
 attcataaac actataaaga acatcaagat aggagaatct cgcggtgtga gttgattcaa 900  
 cgcctgagaa gtataactgg agatagctta ttggttcaaa tcatcaaatc tgttggacaa 960  
 aaggtagata aagacacatg a 981  
 <210> 2  
 <211> 326  
 <212> PRT  
 <213> Arabidopsis thaliana  
 <400> 2  
 Met Asp Tyr Ser Lys Thr Glu Glu Thr Pro Ile Asn Glu Glu Gln Gly  
 1 5 10 15  
 Ser Thr Asn Ser Ser Glu Ser Arg Ser Asn Glu Glu Leu Phe Ser Asp  
 Page 1

AG04-048C-PC.txt  
25

20

30

Cys Asp Gln Gln His Ser Ser Ile Ala Asn Glu Phe Gly Leu Thr Glu  
 35 40 45  
 Leu Pro Lys Asp Asp Lys Val Tyr Glu Leu Ile Tyr Arg His Cys Gln  
 50 55 60  
 Ser Lys Leu Thr Ser His Leu Ser Asn Gln Phe Glu Ile Val Ser Ile  
 65 70 75 80  
 Leu Lys Asn Gly Phe Gln Thr Pro Leu Gly Gln Ala Lys Leu Lys Ala  
 85 90 95  
 Phe Gln Ile Tyr Ala Glu Ser Val Ala Lys Lys Ser Gly Ser Cys Cys  
 100 105 110  
 Gly Asn Lys Ala Ala Val Ala Glu Ala Ala Arg Val Lys Tyr Gly Cys  
 115 120 125  
 Cys Gly Val Glu Lys Glu Glu Leu Lys Ala Ile Leu Met Tyr Gly Phe  
 130 135 140  
 Ser Asn Asn Ala Leu Cys Leu Ser Pro Asp Asn Ala Pro Leu Gln Cys  
 145 150 155 160  
 Met Ile Asp Pro Ser Ser Ser Cys Asn Glu Asp Gly Ile Ser Phe Leu  
 165 170 175  
 Leu Phe Ser Arg Ile Ile Met Gly Lys Ser Glu Val Val Cys Ser Thr  
 180 185 190  
 Ser Gln Ser Tyr Pro Ser Ser Met Glu Phe Asp Ser Gly Val Asp Ser  
 195 200 205  
 Leu Thr Ser Pro Asn Lys Tyr Ile Ile Trp Ser Thr His Met Asn Thr  
 210 215 220  
 His Val Leu Pro Glu Phe Val Val Cys Ile Lys Thr Pro Ser Ile Leu  
 225 230 235 240  
 Lys Arg Ile Ala Asp Leu Val Cys Leu Phe Asp Ile Glu Asn Pro Lys  
 245 250 255  
 Ser Pro Trp Ile Ser Phe Pro Val Leu Ile Asn Ser Ile Ser Lys Phe  
 260 265 270  
 Leu Asn Gln Ser Gln Ile Arg Leu Ile His Lys His Tyr Lys Glu His  
 275 280 285  
 Gln Asp Arg Arg Ile Ser Arg Cys Glu Leu Ile Gln Arg Leu Arg Ser

AG04-048C-PC.txt  
300

290

295

Ile Thr Gly Asp Ser Leu Leu Val Gln Ile Ile Lys Ser Val Gly Gln  
 305 310 315 320

Lys Val His Lys Asp Thr  
 325

<210> 3  
 <211> 770  
 <212> DNA  
 <213> Arabidopsis thaliana

<400> 3  
 ggcggtgttt cgggcagtg agtcgtggtg gcaccaccac caccaccacc acaacaacaa 60  
 caacgtgggtt ttttcgttag gcttgagaga ggtgacgtgg ttcacgatct tatcaagaca 120  
 aggtttattc gtggcctcgg catgctcggg cctaaaaccg aggttgtctc cgttcgccga 180  
 aacgcgtgct ccgacgtcgt ttcacaggcg cgccttact cgtttcatgc tcacgccagg 240  
 gcggtggcga ggctccgcgg cggcggaat catgccaacg tgaagtacgc ctggtatcgt 300  
 acgaacggcg aggacgacgt gaacgacatc gtttcgcaag gcttcggctt cgcgcacggc 360  
 ccgaaactcg ttctctcccc tgacgacgct cctctccaaa gtgcgagagg gtgtgggggt 420  
 gggaaggacg gtgtgaggca cgcgttactg tgccgcgtga ttctagggag atcagagatt 480  
 gttcgtgata acacagaaca ctgctatccg agttgtgaag agtatgattc tggagtggat 540  
 agtttttcgg ggcctacaaa gtacatcatt tggagcaatc gcatgaacac tcatgttttg 600  
 cctgcgtatg ttgtaagctt cagagtttct tcttcaaag ggatggagaa gagtgaagaa 660  
 gaacctttga gacctacttc gccttggatg ccattcccaa ctctgatttc tgcgctttca 720  
 aggttttgcc tccatgtgat attgccctca tctcaaagt ctacaaagat 770

<210> 4  
 <211> 1162  
 <212> DNA  
 <213> Arabidopsis thaliana

<400> 4  
 aaacgctttg agtttgagac tacactacaa cagttgctca gctcatctcc ctcccttttg 60  
 acaccttggg tctggccatg tcgacaaagc atatgtgctc cataaatttc tcaaaagaca 120  
 aggcggctta aactaatctt actcggctac tccccctccc tcttcccccc ttgcgagtgc 180  
 tcttgctagc ccagctgctg ctgctgccat cgatgggggc tctcttctgg tggatgaagcc 240  
 tcattattgt agaaaccaat atcttatcac cgactatttg cctcatccgt accaccagg 300  
 cgctccggct catcctcttc ctcttgaatt cttcatagta tctgatgacc aactccatgt 360  
 ccgaacgagg cactttcgtg gaaatagcag caaaaagcat cgaaaagggc atccatgggtg 420  
 aggagggggc ccttggagca cgccccagcc taggtgcttc ttgttcgaca ccacaaggcg 480  
 cgaacctatc ctcttgggtt agattgtctc gagaaccaga acttatgatc tcagatatgt 540

## AG04-048C-PC.txt

tgggcacgct atccttcaag cccgaacatt cattggtcac gagagggtgct tggacaataa	600
cagcatattc agcatatatg tgtttatgca cattagcatc ccatacgatg taattctgtg	660
gattttgaag atcatccaca ccattatcaa aacttccatt ggatggctga aattgctttg	720
atccaggcaa aacaacctca acattacca ttattacacg gcacaacatc attctgatga	780
tgccatcttc atgaaaatca gaatatctgg cacatgaatt tgtacagttt gcaggagcaa	840
gacaagtccc aacaccacaa atggaccctt tatgaggctt cgcgatttcc agagcacccc	900
gcattgccat ctgctccatg gtatatcttg agcaaggaag ccaagcataa cgtacatttg	960
cattcccccg acgactcctg gtctcttcga tctccttctg gaagagacca caacgaactt	1020
gccctcgctg atctagcagt ggtgttctat agataccaat aatatcttcc tactaaacg	1080
gctgacctaa tcctttgagc aacaaattcc gcacagctga atcaatacgt cgacaatcgt	1140
ttggcttgcc agtagcttgc tc	1162